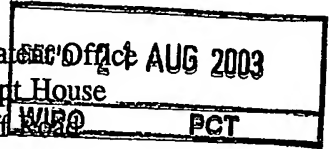




INVESTOR IN PEOPLE

The Patent Office
 Concept House
 Cardiff Road
 Newport
 South Wales
 NP10 8QQ



**PRIORITY
 DOCUMENT**
 SUBMITTED OR TRANSMITTED IN
 COMPLIANCE WITH RULE 17.1(a) OR (b)

G-B03 103351

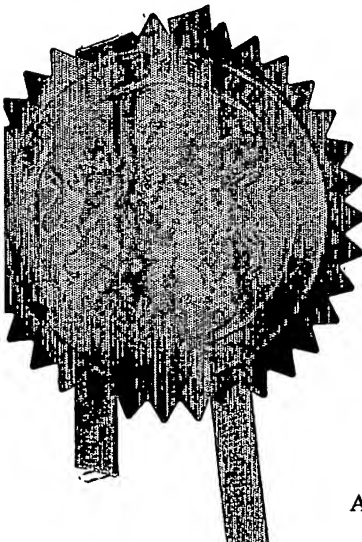
BEST AVAILABLE COPY

I, the undersigned, being an officer duly authorised in accordance with Section 74(1) and (4) of the Deregulation & Contracting Out Act 1994, to sign and issue certificates on behalf of the Comptroller-General, hereby certify that annexed hereto is a true copy of the documents as originally filed in connection with the patent application identified therein.

In accordance with the Patents (Companies Re-registration) Rules 1982, if a company named in this certificate and any accompanying documents has re-registered under the Companies Act 1980 with the same name as that with which it was registered immediately before re-registration save for the substitution as, or inclusion as, the last part of the name of the words "public limited company" or their equivalents in Welsh, references to the name of the company in this certificate and any accompanying documents shall be treated as references to the name with which it is so re-registered.

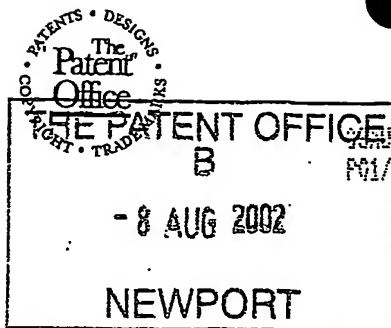
In accordance with the rules, the words "public limited company" may be replaced by p.l.c., plc, P.L.C. or PLC.

Re-registration under the Companies Act does not constitute a new legal entity but merely subjects the company to certain additional company law rules.



Signed *Stephen Hordley*

Dated 12 August 2003



The Patent Office

Cardiff Road
Newport
South Wales
NP10 8QQ

Request for grant of a patent

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

1. Your reference

ADM/8089 GB

2. Patent application number

(The Patent Office will fill in this part)

0218392.9

3. Full name, address and postcode of the or of each applicant (underline all surnames)

Riverwood International Corporation
3350 Riverwood Parkway, Suite 1400
Atlanta
Georgia 30339
USA

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

6201297005

4. Title of the invention

Dispensing Package

5. Name of your agent (if you have one)

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Stevens Hewlett & Perkins
1 St Augustines Place
Bristol BS1 4UD

Patents ADP number (if you know it)

1545002

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number
(if you know it)

Date of filing
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing
(day / month / year)

8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

- a) any applicant named in part 3 is not an inventor, or
 - b) there is an inventor who is not named as an applicant, or
 - c) any named applicant is a corporate body.
- See note (d))

Yes

Patents Form 1/77

9. Enter the number of sheets for any of the following items you are filing with this form. Do not count copies of the same document

Continuation sheets of this form

Description 6

Claim(s) 2

Abstract -

Drawing(s) 6 *2* *1*

10. If you are also filing any of the following, state how many against each item.

Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

ONE *1* *1*

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

11.

I/We request the grant of a patent on the basis of this application.

Signature

Stevens Hewlett & Perkins

Date 07.08.02

STEVENS HEWLETT & PERKINS

12. Name and daytime telephone number of person to contact in the United Kingdom

DAVID MARLES 0117 9226007

Warning

After an application for a patent has been filed, the Comptroller of the Patent Office will consider whether publication or communication of the invention should be prohibited or restricted under Section 22 of the Patents Act 1977. You will be informed if it is necessary to prohibit or restrict your invention in this way. Furthermore, if you live in the United Kingdom, Section 23 of the Patents Act 1977 stops you from applying for a patent abroad without first getting written permission from the Patent Office unless an application has been filed at least 6 weeks beforehand in the United Kingdom for a patent for the same invention and either no direction prohibiting publication or communication has been given, or any such direction has been revoked.

Notes

- a) If you need help to fill in this form or you have any questions, please contact the Patent Office on 08459 500505.
- b) Write your answers in capital letters using black ink or you may type them.
- c) If there is not enough space for all the relevant details on any part of this form, please continue on a separate sheet of paper and write "see continuation sheet" in the relevant part(s). Any continuation sheet should be attached to this form.
- d) If you have answered 'Yes' Patents Form 7/77 will need to be filed.
- e) Once you have filled in the form you must remember to sign and date it.
- f) For details of the fee and ways to pay please contact the Patent Office.

DUPLICATE

DISPENSING PACKAGE

The present invention relates to dispensing packages and more particularly, but not exclusively, those for canned products such as food and drink.

Commonly, canned food/drink products are supplied in a shallow tray made of paperboard or corrugated board, with a shrink wrapping of plastic film. A number of these shrink wrapped trays are often stacked one above the other on a supermarket shelf. The trays are usually stacked on their widest surface which can be considered as lacking space efficiency, particularly if only one tray is on the shelf. Additionally the shrink wrap is not good for assisting in product differentiation.

According to the present invention there is provided a paperboard carton for articles arranged in at least two layers, the carton having a top panel, a base panel, a pair of oppositely disposed side panels and a pair of oppositely disposed end panel arrangements, a divider pad being provided between the adjacent layers of articles and being secured relative to the end panel arrangement at one end, one of the side panels having a removable portion adjacent said one end so as to define a roll-out aperture for article removal when the carton is lying on said one end panel arrangement.

Preferably the divider pad is secured relative to the other end panel arrangement. Conveniently each end panel arrangement comprises a pair of oppositely disposed side end flaps hingedly connected to the side panels and a pair of oppositely disposed main end flaps hingedly connected to the top and base panels respectively.

In preferred embodiments the divider pad has a fold down gluing panel at the or each secured end. With a preferred arrangement the top end flap is folded down last and is adhesively secured to all its associated end flaps of its associated end panel arrangement and to its associated fold down gluing panel.

Ideally a single straight glue line effects said adhesive attachment of the top end flap to the other end flaps and gluing panel. In one such

embodiment the base end flap has a central projecting area such that the straight glue line is provided in turn on one of the side end flaps, the gluing panel, the central area of the base end flaps, the gluing panel and the other side end flap.

In further preferred embodiments said removable portion extends into the top and base panels to aid removal of the articles and also said removable portion is defined by perforations or other lines of weakening.

Normally, the top panel, base panel, two side and two end panel arrangement panels are substantially rectangular but other arrangements could be envisaged.

With preferred arrangements one or more cuts extend partway to the adjacent end from the removable portion. Conveniently two of said cuts extend along the folds between said one side panel and the top and base panels respectively and also a transverse cut is provided at the end of the or each cut remote from the removable portion.

Embodiments of the present invention will now be described in more detail. The description makes reference to the accompanying drawings in which:

Figure 1 shows two paperboard blanks for producing a carton according to the present invention,

Figures 2 to 6 are end perspective views showing the stages of assembly of the blanks of figure 1 to form the carton according to the present invention,

Figure 7 is a side perspective view of the assembled carton standing on one end,

Figure 8 is another side perspective view of the assembled carton standing on one side with a removable portion removed to define a roll-out aperture,

Figure 9 is an enlarged view of part of a preferred blank for producing a carton according to the present invention,

Figure 10 is a further enlarged view of a detail of figure 9, and

To assemble the carton 12 the adhesive flap 17 of the main blank 10 is secured to the side panel 14 and the main blank 10 is opened up to form an open-ended sleeve. A layer of cans 31 are then inserted into the sleeve so as to have their ends lying on the base panel 16 as shown in figure 2. The second blank 11 is then inserted as shown in figure 3 so as to lie on top of the layer of cans 31. A second layer of cans 31 is then inserted into the sleeve so as to lie on top of the main panel 29 of the divider pad 11 with the glue panels 30 folded down at both ends of the sleeve so as to lie against the lower layer of cans 31, as shown in figure 4. The side end flaps 19, 20 at each end are then folded in and the base end flaps 22 are folded up and at each end a single straight glue line 32 is applied to the side end flaps 19, 20, the glue panel 30 and to the central area 23 of the base end flap 22 as shown in figure 5. The top end flap 21 at each end is then folded down into contact with the glue line 32 so as to be adhesively secured to the glue panel 30, the base end flap 22 and the side end flaps 19, 20.

The carton 12 is thus fully assembled as shown in figure 6 and all panels can display product and promotion information, advertising, logos, competition details etc. In store, the carton 12 can be placed on a shelf on its end adjacent the removable portion 33 which faces toward the consumer. This is shown in figure 7. Side panel 15 is, therefore, particularly suited to displaying advertising logos and other information. The removable portion 33 is then removed so as to enable consumers to remove the cans 31 through the resulting roll-out dispensing aperture as shown in figure 8. The stop wall 28 prevents the cans 31 from rolling out of the carton 12.

The carton 12 can occupy a relatively small horizontal space on the shelf compared to conventional shrink-wrapped trays for cans and can provide significant advertising/information areas, for example on the side panel 15.

In figures 9 to 11 there is shown a modification to the abovementioned arrangement. Like parts, however, have been given like reference numerals. Looking at the blank detail in figures 9 and 10, the folds between the side panel 15 and the top panel 13 and the base panel 16 are indicated by numerals 40 and 41 respectively. The line of weakening 25 adjacent the stop wall 28 crosses the folds 40 and 41. The modification is to provide a cut 42 in each fold 40, 41, which cut 42 extends from the line of weakening 25 towards but short of the side end flap 20. A short transverse cut 43 is provided at the end of each cut 42 and the transverse cuts 43 extend a short distance into the stop wall 28 and the base panel 16 or top panel 13 respectively. Between the transverse cuts 43 and the side end flap 20 the folds 40, 41 remain uncut.

The modified blank is assembled in the same way as blank 10 of figure 1 and is secured with respect to blank 11 in the same way. Once the pack is opened, however, there is a small difference in operation after the removable portion 33 has been removed. Instead of the entire stop wall 28 being fixed relative to the now upright base and top panels 16, 13, the now upper part 28a of the stop wall 28 is able to flex outwardly as illustrated in figure 11. The lower part 28b of the stop wall 28 remains fixed relative to the base and top panels 16, 13. This outward flexing of the upper part 28a is made possible by the provision of the cuts 42 in the folds 40, 41 and makes it easier to remove the cans from the carton. The transverse cuts 43, which are optional, tend to prevent the cuts 42 from extending beyond their intended length towards the side end flap 20.

In this particular embodiment the cuts 42 extend about halfway towards the side end flap 20, but the dimensions are a matter of design choice dependent on the can and other carton dimensions. In addition, although the cuts 42 are shown as extending along the folds 40, 41, alternative cuts could be provided in other locations to facilitate removal of the cans.

6. A carton as claimed in claim 5 wherein a single straight glue line effects said adhesive attachment of the top end flap to the other end flaps and gluing panel.
7. A carton as claimed in claim 6 wherein the base end flap has a central projecting area such that the straight glue line is provided in turn on one of the side end flaps, the gluing panel, the central area of the base end flaps, the gluing panel and the other side end flap.
8. A carton as claimed in any one of claims 1 to 7 wherein said removable portion extends into the top and base panels to aid removal of the articles and also said removable portion is defined by perforations or other lines of weakening.
9. A carton as claimed in any one of claims 1 to 8 wherein the top panel, base panel, two side and two end panel arrangement panels are substantially rectangular.
10. A carton as claimed in any one of claims 1 to 9 wherein one or more cuts extend partway to the adjacent end from the removable portion.
11. A carton as claimed in claim 10 wherein two of said cuts extend along the folds between the said one side panel and the top and base panels respectively.
12. A carton as claimed in claim 10 or claim 11 wherein a transverse cut is provided at the end of the or each cut remote from the removable portion.

1/6

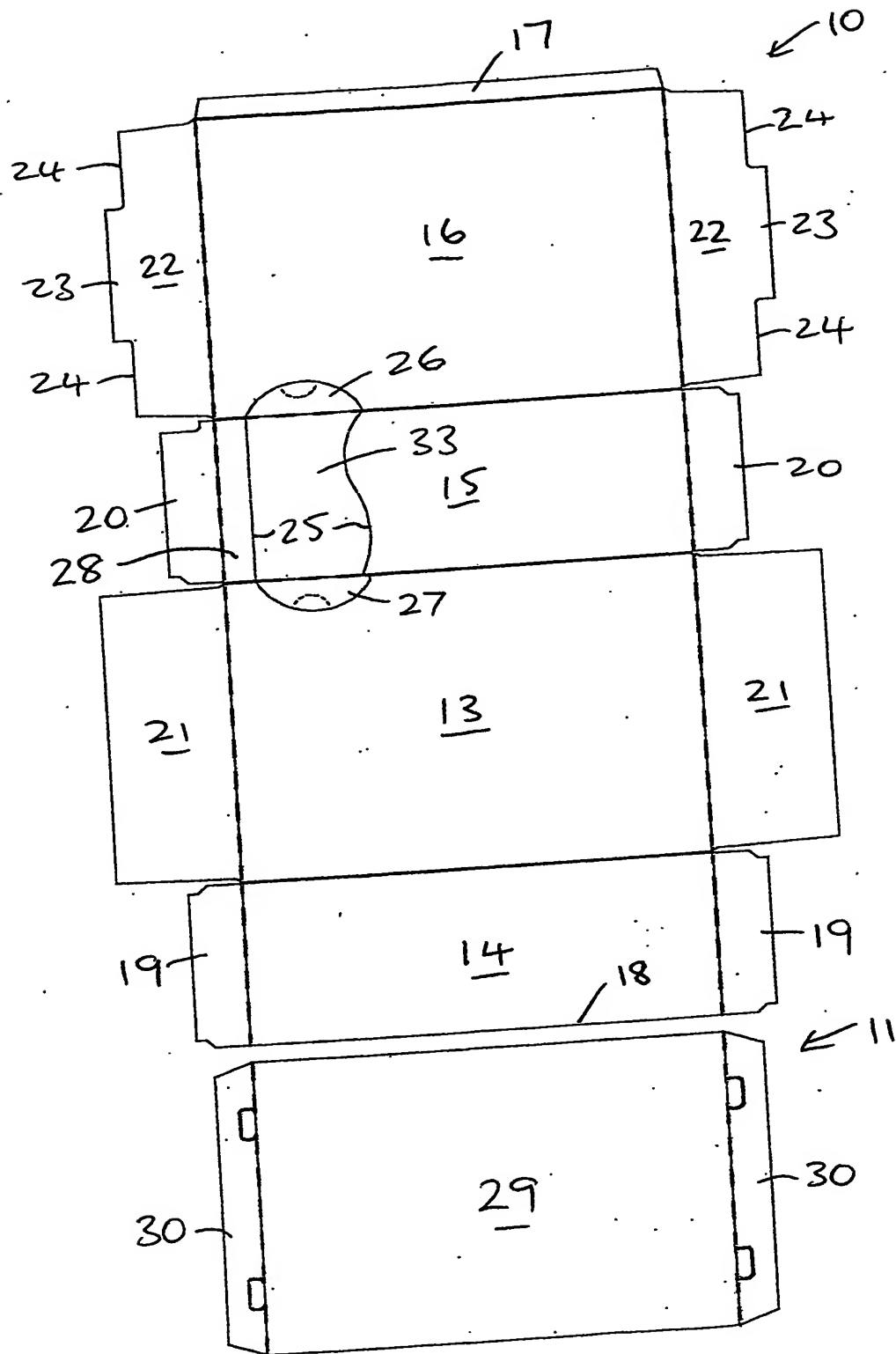


FIGURE 1

2/6

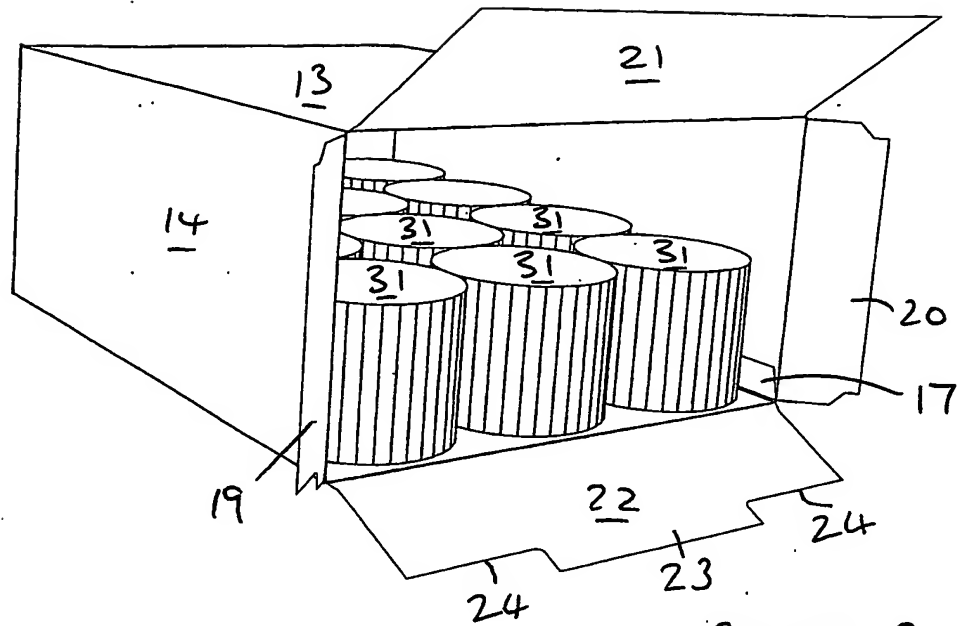


FIGURE 2

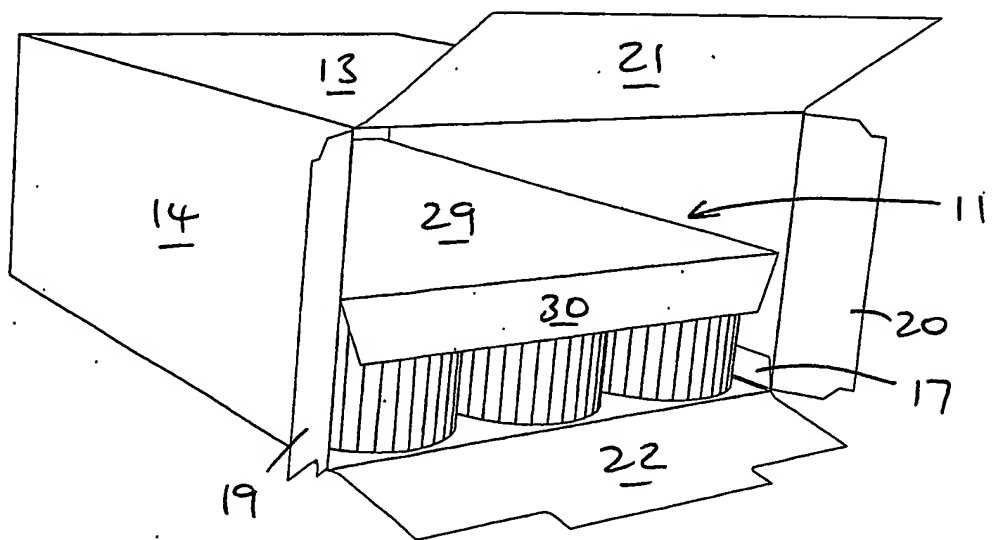


FIGURE 3

3/6

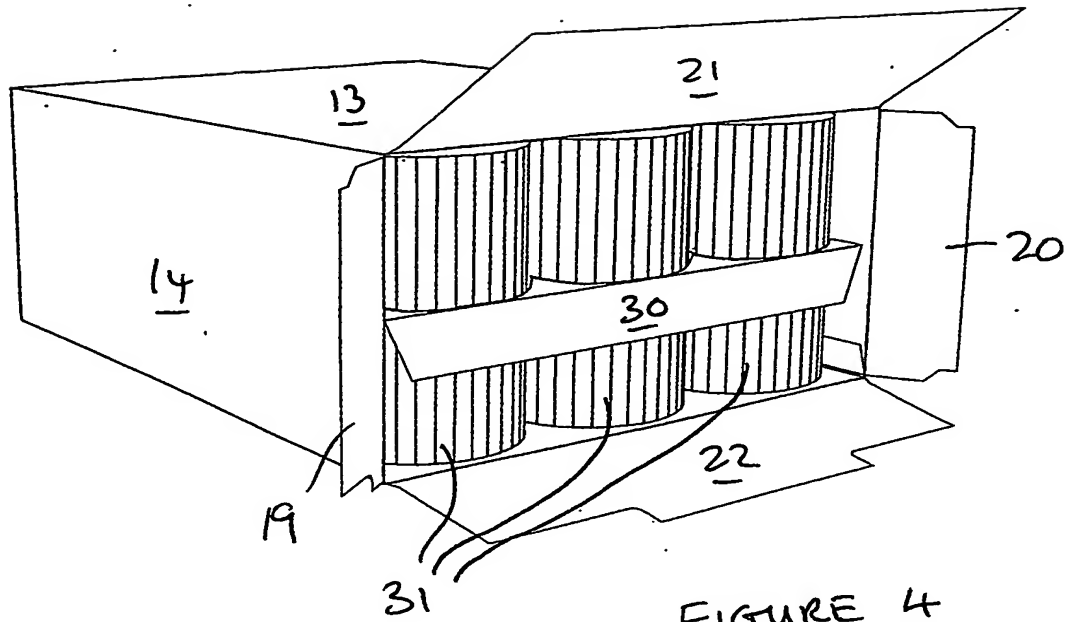


FIGURE 4

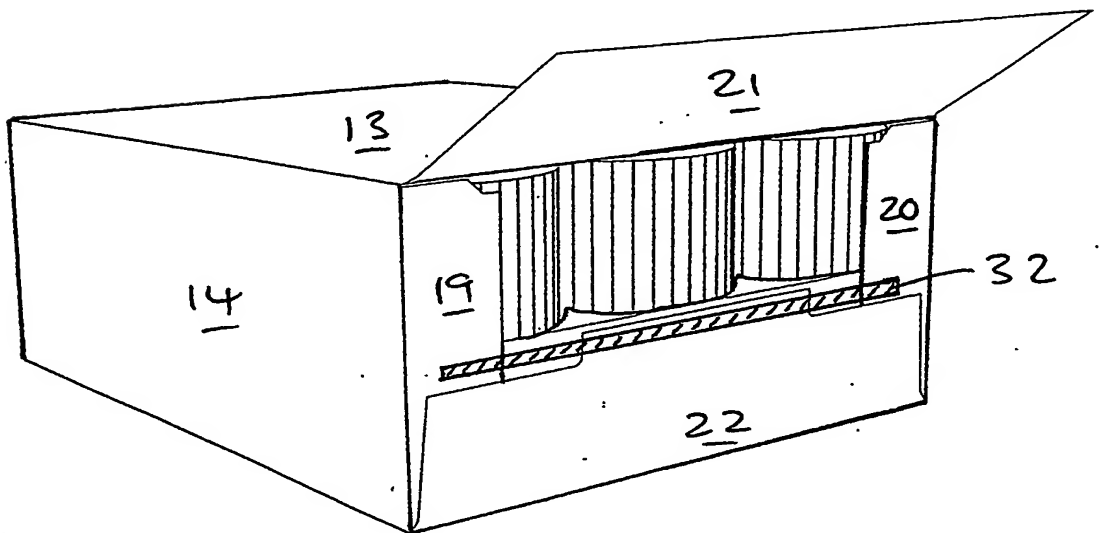
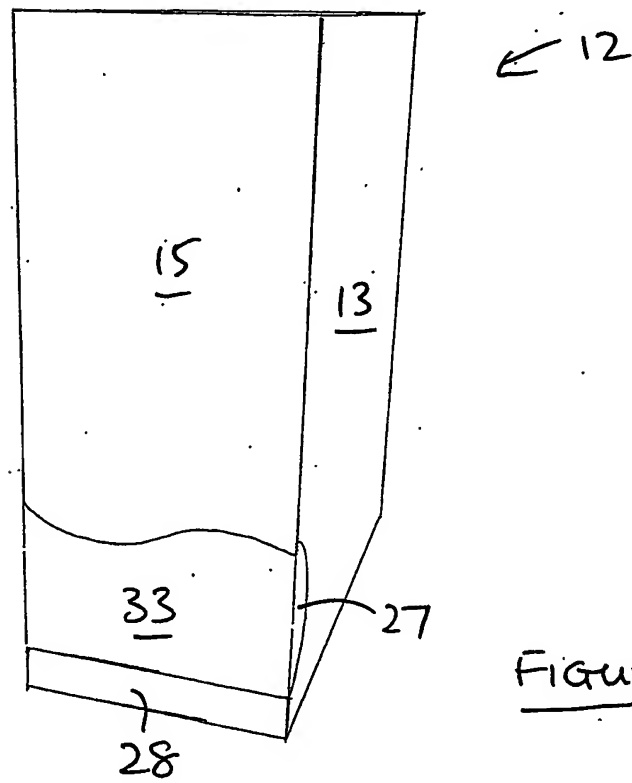
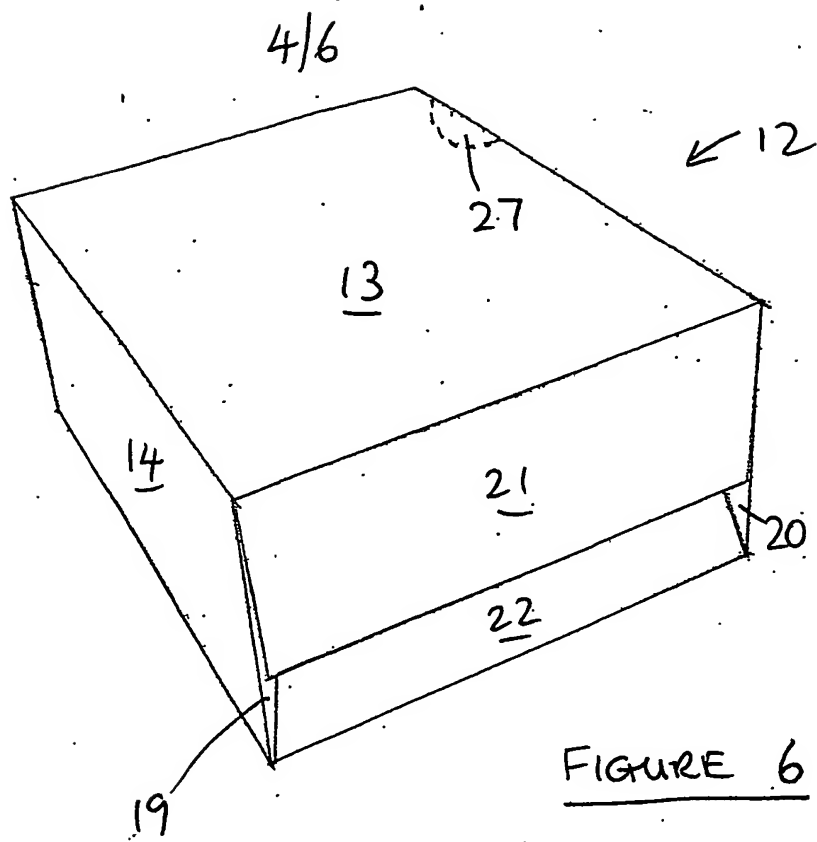


FIGURE 5



5/6

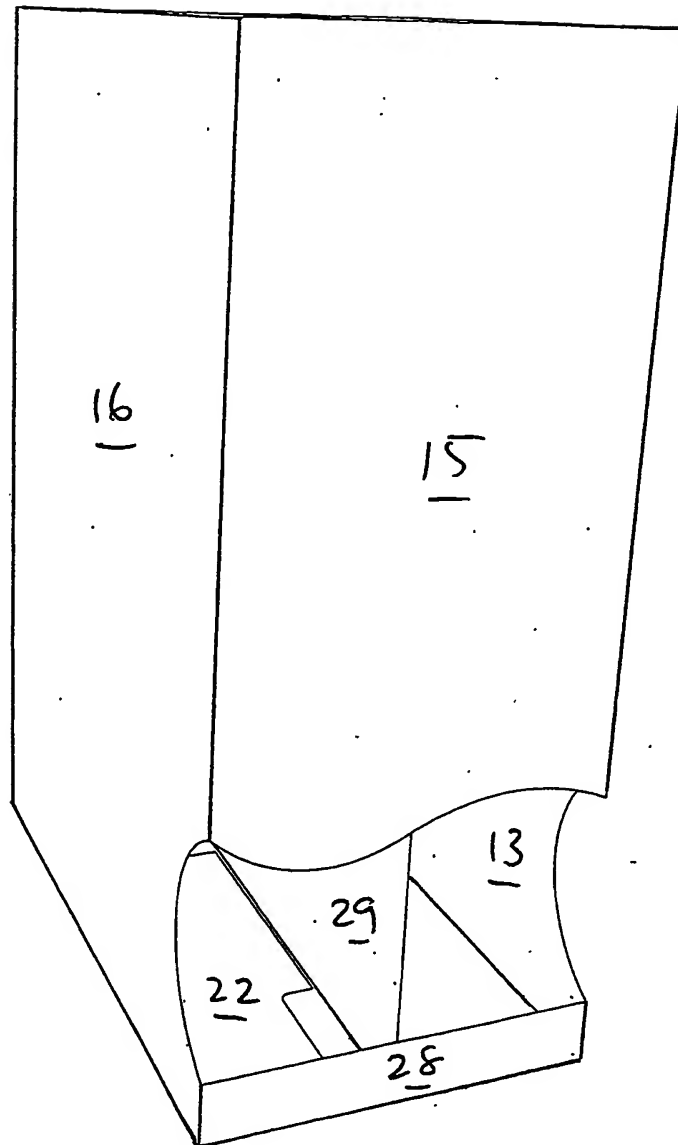


FIGURE 8.

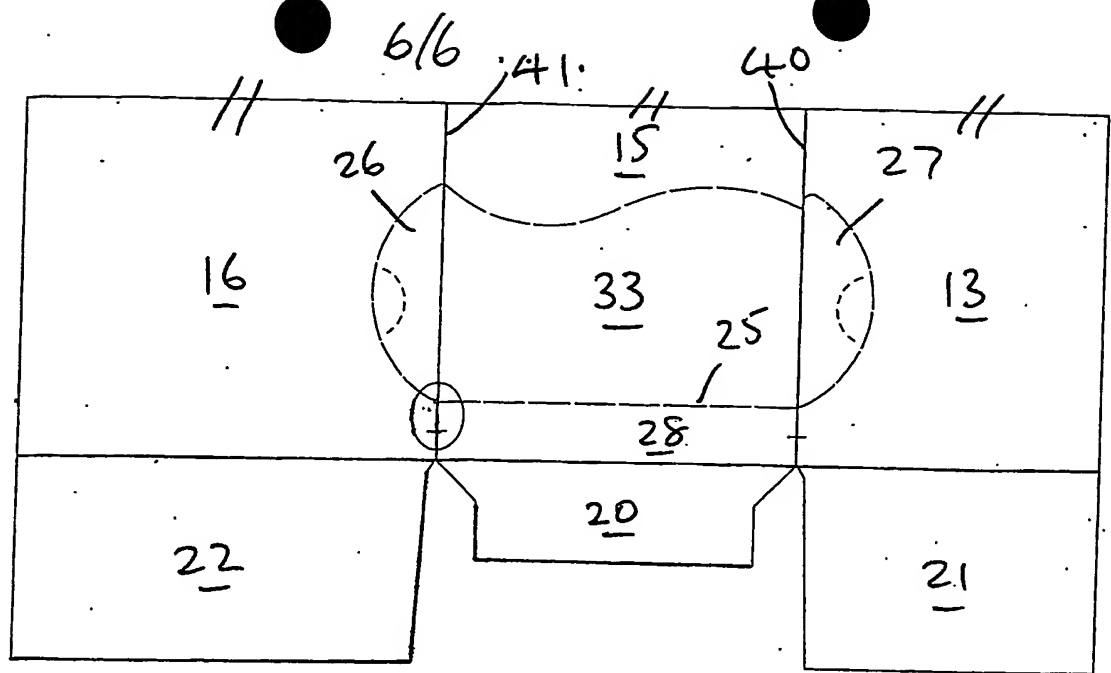


FIGURE 9

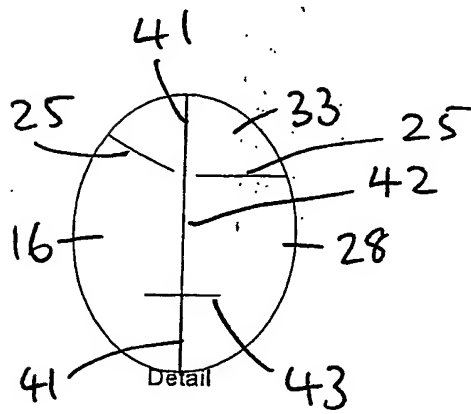


FIGURE 10

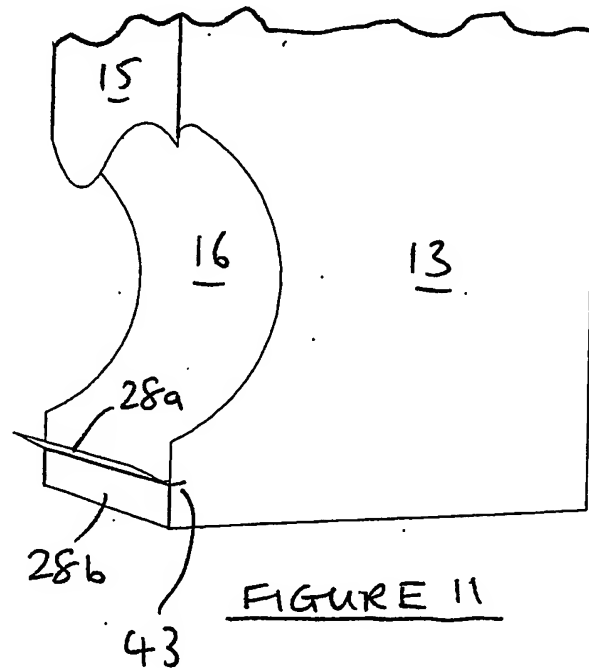


FIGURE 11

THE PATENT OFFICE
13 AUG 2003
Received in Patents
International Unit

This Page is inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☒ BLACK BORDERS
- ☒ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☒ FADED TEXT OR DRAWING
- ☐ BLURED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☒ COLORED OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REPERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images
problems checked, please do not report the
problems to the IFW Image Problem Mailbox**